<u>Tabl</u>	Table 1. TCE Concentrations in Grenada MFG Monitoring Wells							
Progress Toward Cleanup (Pre-2016)								
TGET	TCE Trends observed in monitoring wells:			SEE locations for most wells on 2015 Moose Lodge Road Area Additional Investigation Report PDF p.64/2563				
TCE Trends increasing in			23	Almost 53% of wells have increasing TCE trend after years of sampling. Degradation rates are less than the input rates where				
<u>Well</u> Name	TCE Trend	TCE @ MCL before 2048	TCE Trend Slope	Comment 1	Comment 2	Comment 3		
MW01	Decreasing	Yes	-0.1711	TCE cleanup to MCL around 2036 from 7,700ug/L. Well is too shallow. See TW-215 MRL 2015 Report PDF p.96/2563.	This well is between Equalization Lagoon & WWTP, north of ball field. TCE trend deceasing fairly fast.	Well not sampled since 2012!		
MW02	Increasing	No	0.0203			Well not sampled since 1998		
MW03	Decreasing	Yes	-0.1280	TCE cleanup to MCL around 2033.				
MW04	Decreasing	No	-0.0055	TCE cleanup to MCLs after 2100. Very long TCE cleanup time far greater than 100 years.	Slight decreasing trend more likely evidence of movement than degradation.	Highly contaminated well not sampled since 2012!		
MW05	Increasing	No	0.0137	TCE cleanup to MCLs after 2100. Very long TCE cleanup time far greater than 100 years.	Slight decreasing trend more likely evidence of movement than degradation.	Deep Well in MW05/10 pair.		
MW06	Decreasing	No	-0.0872	TCE cleanup to MCL around 2074 from 9,800ug/L.		Well not sampled since 2012		
MW07	Increasing	No	0.0202	Erratic trend from low concentration.	Why is TCE increasing up gradient & away from Main Plant Building?			
MW08	Decreasing	Yes	-0.0748	TCE cleanup to MCL around 2047 from 420ug/L.	Slow cleanup from low concentration (420ug/L). Slow rate may be due to downward TCE movement from MW11 or from up gradient?			
MW09	Stable Not Contaminat ed					Deep Well in MW09/12 pair.		
MW10	Increasing	No	0.0640			Shallow Well in MW05/10 pair.		
MW11	Decreasing	Yes	-0.1680	Predicted in 2012 well should be clean by 2015 based on trend to 2012. In 2015 well produced one 1U result.	Expect some low-level variabilty based on 2013 result.			

MW28				Never Sampled	Well at AOC A with no reported sample results!	
MW27		une ne nauer ne nauer ve	200 20 20 20 20 20 20 20 20 20 20 20 20	Never Sampled	Well at AOC A with no reported sample results!	
MW26				MLR well sampled 1993 & 1999. See MLR (Grenada) 2015 report PDF p.167/2563. TCE >63000µg/L.	No digital data yet.	
MW25	Decreasing	No	-0.1261	TCE cleanup to MCL around 2080 from 360,000ug/L.	Well only 22 feet deep. Have no data below this interval.	
MW24				Insufficient Samples	Highly contaminated well at AOC A sampled only twice in 1993 with two high MCL exceedances for TCE > 4,400 ug/L at AOC A Fuel Tank Containment Area.	
MW23	Decreasing	No	-0.0098	TCE cleanup to MCLs after 2100. Very long TCE cleanup time far greater than 100 years.		
MW22		20. 20. 00. 20. 20. 00. 20.	**************************************	Never Sampled		
MW21				ž.	Sampled only twice in 1993 with one MCL exceedance for TCE.	Well not sampled since 1993!
MW20	Increasing	No	0.1166	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Eastern Heights subdivison boundary well.	Well not sampled since 2014!
MW19				13,000ug/L. Never Sampled		
MW17	Decreasing	No	-0.0851	TCE cleanup to MCL around 2088 from	***************************************	Well not sampled since 2012!
MW16	Decreasing	No	-0.1058	TCE cleanup to MCL around 2062 from 7,100ug/L.	Decreasing trend here may show PRB responsible for increases in wells farther down gradient?	Will concentrations rise in next few years upsetting a downward trend?
MW15	Decreasing	No	-0.1054	TCE cleanup to MCL around 2058 from 5,200ug/L.		Well not sampled since 2012
MW14	Increasing	No	0.0282	Example of a PRB failure! Decrease after PRB installed rises again to <1,000µg/L in 3 years.	Well DG from PRB should be clean 10 years after PRB installation but isn't. Trend is highly erratic and unlike other wells.	Shallow well of MW14/57 pair.
MW13	Increasing	No	0.2408	North of Outfall Ditch. Increase due to northerly by-pass of PRB?	2003 sample was ND. Increase likely due to PRB, but possibly Eastern Heights neighborhood plume.	
MW12	Decreasing	Yes	-0.2096	Predicted in 2012 well should be clean by 2015 based on trend to 2012. By 2015 well produced three 1U results in a row.		Shallow well in MW09/12 pair

MW29			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Never Sampled	Well at AOC A with no	
IVIVVZJ				inever sampled	reported sample results!	
MW30				Never Sampled	Well at AOC A with no	
				3.46461 bampica 3.	reported sample results!	
MW31				Never Sampled	Well at AOC A with no	
			ļ	<u>,</u>	reported sample results!	
MW32		une per poune per per per per		MLR area well	No digital data yet.	
					DG from PRB so results	
MW41	Increasing	No	0.1606	Erratic Trend. See MW14.	dependent on PRB	
					performance. Significant	
	ļ			ļ	increase in TCE after 2012.	
			0.44.43	Erratic Trend. See MW14.	DG from PRB so results	
					dependent on PRB	
0.414/40		V2			performance, which is failing.	Trend is changing.
MW42	Decreasing	Yes?	-0.1142		Low results for 5 years after	
					PRB install are being offset by	
					higher results.	
	**************************************			<u>.</u>	Inside the PRB so results	
MW43	Increasing	No	0.3302		dependent on PRB	
					performance.	
e na lan lar na lan lar na la	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	that an arma an arma an			Inside the PRB so results	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
MW44	Increasing	No	0.1394		dependent on PRB	
					performance.	
				Mean TCE concentration		
MW45	Increasing	No	0.0079	>12,500ug/L with little		
				variation since 2003.		
				TCE cleanup to MCL	Overall trend down but recent	
MW46	Decreasing	No	-0.0662	around 2117 from	increase evident.	
2 AT 20 AT 20 AT 20 AT 2	ļ			15,000ug/L.		
0.43.44.47				Increasing from low levels.	DG from PRB so results	Shallow well of
MW47	Increasing		0.1314	Indication of PRB failure?	dependent on PRB performance	MW47/48 pair.
				Example of a PRB failure!	periormance	***************************************
				Decrease after PRB	DG from PRB so results	
MW48	Increasing	No	0.6228	installed rises again to	dependent on PRB	Deep well of MW47/48
)		<1,000μg/L in 6 years.	performance	pair.
				See MW14.	<u>'</u>	
	·			TOE	Inside the PRB so results	D III AANAA (50
MW49	Decreasing	Yes	-0.0232	TCE trend is a bit erratic.	dependent on PRB	Deep well in MW49/50
				PRB appears to be failing.	performance.	pair inside PRB.
				TCE trend is a bit erratic.	Inside the PRB so results	Shallow well in
MW50	Increasing	No	0.2444	PRB appears to be failing.	dependent on PRB	MW49/50 pair inside
e va en er va en en er va e	ļ	na an an an an an an an		The appears to be failing.	performance.	PRB.
					Up gradient from PRB	Shallow well of
MW51	Increasing	No	0.4715		increasing dramatically since	MW51/52 pair.
	ļ				PRB installation.	
	1	• •		Damming effect by PRB	Up gradient from PRB	Deep well of MW51/52
MW52	Increasing	No	0.2344	since 2005?	increasing dramatically since	pair.
					PRB installation.	
N 43 4 / E 3	Inoressia	Al-	n sone		Up gradient from PRB	
MW53	Increasing	No	0.3898		increasing dramatically since PRB installation.	
	ļ <u>.</u>				Up gradient from PRB	*************
:		No	0.3880	Damming effect by PRB	increasing dramatically since	
MW54	Increasing			since 2005?		

MW55	Increasing		0.0034	PRB South end	Steady TCE concentrations ~2,000μg/L.	Shallow well of MW55/56 pair.
MW56	Increasing		0.1750	PRB South end	TCE concentrations ~2,000μg/L.	Deep well of MW55/56 pair.
MW57	Decreasing		-0.6490	Middle & DG from PRB very different performance from MW14.	Why is PRB working here and not in shallow well MW14?	Deep well of MW14/57 pair.
MW58	Increasing		0.8135	PRB North end	Concentrations increasing toward 100µg/L.	Shallow well of MW58/59 pair.
MW59	Increasing		0.2208	PRB North end	Concentrations < MCL but TCE concentrations increasing.	Deep well of MW58/59 pair.
MW60				Insufficient Samples		
MW61		an and not be and not be an and not b		Insufficient Samples		***************************************
MW62			: :	Insufficient Samples		
MW63		as and and this and and and and that t	 	Insufficient Samples	**************************************	***************************************
RTO1	Increasing	No	0.0207	Well is UG from Equalization Pond area. TCE typically 100-200 μg/L.	Is TCE increase due to vertical migration from unsaturated soils or lateral migration from Up Gradient?	RT wells are too shallow. See TW-215 MRL 2015 Report PDF p.96/2563. Decreasing trends may be partially from sinking plume.
RTO2	Decreasing	No	-0.1262	TCE cleanup to MCL around 2069 from 63,000ug/L, much higher than RT-1.	RT02 & RT03 have almost identical degradation rates. Initial concentrations are so high cleanup is far in future despite reasonable degradation rate.	See well TW-209 in MLR 2015 report PDF p.96/2563.
RT03	Decreasing	No	-0.1043	TCE cleanup to MCL around 2087 from 130,000ug/L.	Interesting RT02 & RT03 have almost identical degradation rates. Initial concentrations are so high cleanup is far in future despite reasonable degradation rate.	Well not sampled since 2012!
RTO4	Decreasing	No	-0.0470	TCE cleanup to MCLs around 2095.		RT wells are too shallow. See TW-215 MRL 2015 Report PDF p.96/2563. Decreasing trends may be partially from sinking plume.
RT05	Decreasing	Yes	-0.1522	TCE cleanup to MCL around 2042 from 10,000ug/L.		